GR41/50 RS44/52

Operator's manual (EPA)



Please read the operator's manual carefully and make sure you understand the instructions before using the machine.

KEY TO SYMBOLS

Symbols

WARNING! Clearing saws, brushcutters and trimmers can be dangerous! Careless or incorrect use can result in serious or fatal injury to the operator or others.



Please read the operator's manual carefully and make sure you understand the instructions before using the machine.



Always wear:

- A protective helmet where there is a risk of falling objects
- Hearing protection
- Approved eye protection



Max. speed of output shaft, rpm



Watch out for thrown objects and ricochets.



The operator of the machine must ensure, while working, that no persons or animals come closer than 15 metres.



Machines fitted with saw blades or grass blades can be thrown violently to the side when the blade comes into contact with a fixed object. The blade is capable of amputating an arm or leg. Always keep people and animals at least 15 metres from the machine.



Always wear approved protective gloves.



Wear sturdy, non-slip boots.



Only use non-metallic, flexible cutting attachments, i.e. trimmer heads with trimmer cord.



Other symbols/decals on the machine refer to special certification requirements for certain markets.

Switch off the engine by moving the stop switch to the STOP position before carrying out any checks or maintenance.



Always wear approved protective gloves.



Regular cleaning is required.



Visual check.



Approved eye protection must always be used.



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Note the following before starting:

Please read the operator's manual carefully.

Long-term exposure to noise can result in permanent hearing impairment. So always use approved hearing protection.

Maintenance, replacement, or repair of the emission control devices and system may be performed by any nonroad engine repair establishment or individual.



WARNING! Under no circumstances may the design of the machine be modified without the permission of the manufacturer. Always use genuine accessories. Non-authorized modifications and/or accessories can result in serious personal injury or the death of the operator or others.

Your warranty may not cover damage or liability caused by the use of non-authorized accessories or replacement parts.



WARNING! A clearing saw, brushcutter or trimmer can be dangerous if used incorrectly or carelessly, and can cause serious or fatal injury to the operator or others. It is extremely important that you read and understand the contents of this operator's manual.

Jonsered

JONSERED HUSKVARNA SWEDEN IMPORTANT ENGINE INFORMATION

TWC

THIS ENGINE CONFORMS TO U.S. EPA PH1 FOR SMALL NON - ROAD ENGINES. REFER TO OPERATOR`S MANUAL FOR MAINTENANCE SPECIFICATIONS AND ADJUSTMENTS.

This label certify that the product has been certified in accordance with American exhaust requirements EPA 1.



WARNING

The engine exhaust from this product contains chemicals known to the State of California to cause cancer, birth defects or other reproductive harm.

INTRODUCTION

Dear customer!

Congratulations on your choice to buy a Jonsered product!

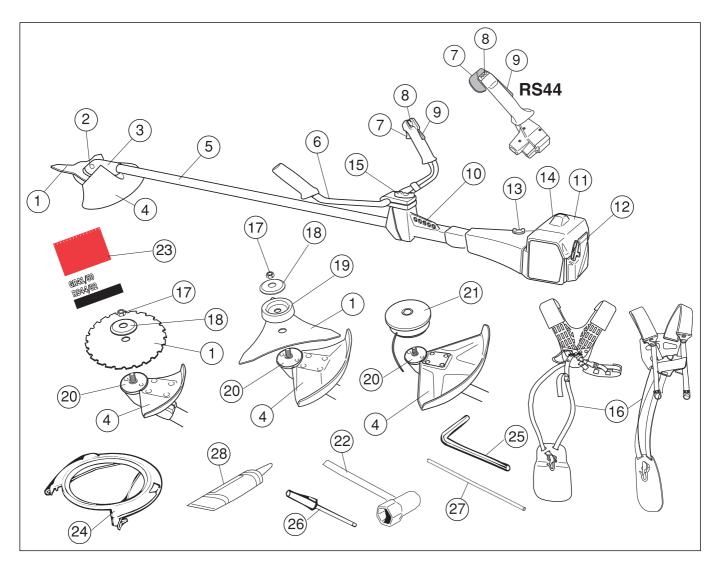
Your purchase gives you access to professional help with repairs and service whenever this may be necessary. If the retailer who sells your machine is not one of our authorized dealers, ask for the address of your nearest servicing dealer.

It is our wish that you will be satisfied with your product and that it will be your companion for a long time. Think of this operator's manual as a valuable document. By following its' content (using, service, maintenance etc) the life span and the second-hand value of the machine can be extended. If you ever lend or sell this machine, make sure that the borrower or buyer gets the operator's manual, so they will also know how to properly maintain and use it.

Good luck on using your Jonsered machine!

Jonsered has a policy of continuous product development and therefore reserves the right to modify the design and appearance of products without prior notice.

WHAT IS WHAT?

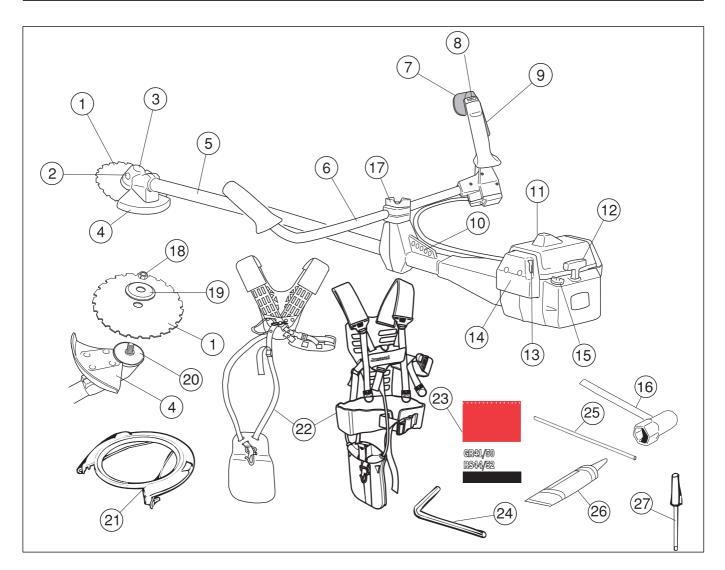


What is what on the clearing saw? (RS44)

- 1 Blade
- 2 Grease filler cap, bevel gear
- 3 Bevel gear
- 4 Cutting attachment guard
- 5 Shaft
- 6 Handlebar
- 7 Throttle control
- 8 Stop switch
- 9 Throttle lock
- 10 Support eyes for harness
- 11 Cylinder cover
- 12 Starter handle
- 13 Fuel tank
- 14 Choke control

- 15 Handle adjustment
- 16 Harness
- 17 Locking nut
- 18 Support flange
- 19 Support cup
- 20 Drive disc
- 21 Trimmer head
- 22 Socket spanner
- 23 Operator's manual
- 24 Transport guard
- 25 Allen key
- 26 Carburettor screwdriver
- 27 Locking pin
- 28 Gearbox grease

WHAT IS WHAT?



What is what on the clearing saw? (RS52)

- 1 Blade
- 2 Grease filler cap, bevel gear
- 3 Bevel gear
- 4 Cutting attachment guard
- 5 Shaft
- 6 Handlebar
- 7 Throttle control
- 8 Stop switch
- 9 Throttle lock
- 10 Support eyes for harness
- 11 Cylinder cover
- 12 Starter handle
- 13 Choke control
- 14 Air filter

- 15 Fuel tank
- 16 Socket spanner
- 17 Handle adjustment
- 18 Locking nut
- 19 Support flange
- 20 Drive disc
- 21 Transport guard
- 22 Harness
- 23 Operator's manual
- 24 Allen key
- 25 Locking pin
- 26 Gearbox grease
- 27 Carburettor screwdriver

Important

IMPORTANT!

The machine is only designed for trimming grass, grass clearing and/or forestry clearing.

The only accessories you can operate with this engine unit are the cutting attachments we recommend in the chapter on Technical data.

Never use the machine if you are tired, if you have drunk alcohol, or if you are taking medication that could affect your vision, your judgement or your co-ordination.

Wear personal protective equipment. See instructions under the heading Personal protective equipment.

Never use a machine that has been modified in any way from its original specification.

Never use a machine that is faulty. Carry out the checks, maintenance and service instructions described in this manual. Some maintenance and service measures must be carried out by trained and qualified specialists. See instructions under the heading Maintenance.

All covers and guards must be fitted before starting. Ensure that the spark plug cap and ignition lead are undamaged to avoid the risk of electric shock.

The machine operator must ensure that no people or animals come closer than 15 metres while working. When several operators are working in the same area the safety distance should be at least twice the tree height and no less than 15 metres.

Personal protective equipment

IMPORTANT!

A clearing saw, brushcutter or trimmer can be dangerous if used incorrectly or carelessly, and can cause serious or fatal injury to the operator or others. It is extremely important that you read and understand the contents of this operator's manual.

You must use approved personal protective equipment whenever you use the machine. Personal protective equipment cannot eliminate the risk of injury but it will reduce the degree of injury if an accident does happen. Ask your dealer for help in choosing the right equipment.



WARNING! Listen out for warning signals or shouts when you are wearing hearing protection. Always remove your hearing protection as soon as the engine stops.

HELMET

A helmet should be worn if the trees being cleared are taller than 2 m



HEARING PROTECTION

Wear hearing protection that provides adequate noise reduction.



EYE PROTECTION

Always wear approved eye protection. If you use a visor then you must also wear approved protective goggles. Approved protective goggles must comply with standard ANSI Z87.1 in the USA or EN 166 in EU countries.



GLOVES

Gloves should be worn when necessary, e.g., when fitting cutting attachments.



BOOTS

Wear sturdy, non-slip boots.



CLOTHING

Wear clothes made of a strong fabric and avoid loose clothing that can catch on twigs and branches. Always wear heavy, long pants. Do not wear jewellery, shorts sandals or go barefoot. Secure hair so it is above shoulder level.

FIRST AID KIT

Always have a first aid kit nearby.



Machine's safety equipment

This section describes the machine's safety equipment, its purpose, and how checks and maintenance should be carried out to ensure that it operates correctly. See the "What is what?" section to locate where this equipment is positioned on your machine.

The life span of the machine can be reduced and the risk of accidents can increase if machine maintenance is not carried out correctly and if service and/or repairs are not carried out professionally. If you need further information please contact your nearest servicing dealer.

IMPORTANT!

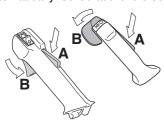
All servicing and repair work on the machine requires special training. This is especially true of the machine's safety equipment. If your machine fails any of the checks described below you must contact your service agent. When you buy any of our products we guarantee the availability of professional repairs and service. If the retailer who sells your machine is not a servicing dealer, ask him for the address of your nearest service agent.



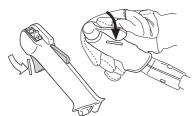
WARNING! Never use a machine with faulty safety equipment. The machine's safety equipment must be checked and maintained as described in this section. If your machine fails any of these checks contact your service agent to get it repaired.

Throttle lock

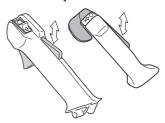
The throttle lock is designed to prevent accidental operation of the throttle control. When you press the lock (A) (i.e. when you grasp the handle) it releases the throttle control (B). When you release the handle the throttle control and the throttle lock both move back to their original positions. This movement is controlled by two independent return springs. This arrangement means that the throttle control is automatically locked at the idle setting.



Make sure the throttle control is locked at the idle setting when the throttle lock is released.



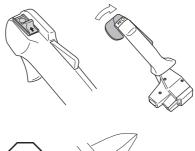
Press the throttle lock and make sure it returns to its original position when you release it.



Check that the throttle control and throttle lock move freely and that the return springs work properly.



See instructions under the heading Start. Start the machine and apply full throttle. Release the throttle and check that the cutting attachment stops and remains at a standstill. If the cutting attachment rotates with the throttle in the idle position then the carburettor idle setting must be checked. See instructions under the heading Maintenance.





Stop switch

Use the stop switch to switch off the engine.



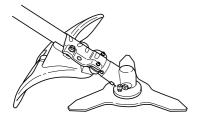
Start the engine and make sure the engine stops when you move the stop switch to the stop setting.

Cutting attachment guard





This guard is intended to prevent loose objects from being thrown towards the operator. The guard also protects the operator from accidental contact with the cutting attachment.



Check that the guard is undamaged and not cracked. Replace the guard if it has been exposed to impact or is cracked.

Always use the recommended guard for the cutting attachment you are using. See chapter on Technical data.



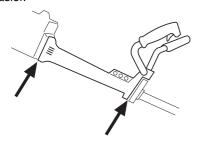
WARNING! Never use a cutting attachment without an approved guard. See the chapter on Technical data. If an incorrect or faulty guard is fitted this can cause serious personal injury.

Vibration damping system





Your machine is equipped with a vibration damping system that is designed to reduce vibration and make operation easier.



Use of incorrectly wound cord or an incorrect cutting attachment increases the level of vibration. See instructions under the heading Cutting equipment.

The machine's vibration damping system reduces the transfer of vibration between the engine unit/cutting equipment and the machine's handle unit.





Regularly check the vibration damping units for cracks or deformation. Check that the vibration damping element is undamaged and securely attached.

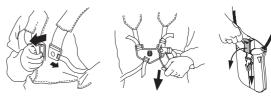


WARNING! Overexposure to vibration can lead to circulatory damage or nerve damage in people who have impaired circulation. Contact your doctor if you experience symptoms of overexposure to vibration. Such symptoms include numbness, loss of feeling, tingling, pricking, pain, loss of strength, changes in skin colour or condition. These symptoms normally appear in the fingers, hands or wrists. The risk increases at low temperatures.

Quick release

There is an easily accessible, quick release fitted at the front as a safety precaution in case the engine catches fire, or in any other situation that requires you to free yourself from the machine and harness. See instructions under the heading Adjusting the harness and clearing saw.

Certain harnesses also have a quick release fitted to the support hook.



Check that the harness straps are correctly positioned. Once the harness and machine have been adjusted, check that the harness quick release works correctly.

Muffler







The muffler is designed to keep noise levels to a minimum and to direct exhaust fumes away from the user.

A muffler fitted with a catalytic converter is also designed to reduce harmful exhaust gases.



In countries that have a warm and dry climate there is a significant risk of fire. We therefore fit certain mufflers with a spark arrestor mesh. Check whether the muffler on your machine is fitted with this kind of mesh.





For mufflers it is very important that you follow the instructions on checking, maintaining and servicing your machine. See instructions under the heading Checking, maintaining and servicing the machine's safety equipment.

Never use a machine that has a faulty muffler.



Regularly check that the muffler is securely attached to the machine.

If the muffler on your machine is fitted with a spark arrestor mesh this must be cleaned regularly. A blocked mesh will cause the engine to overheat and may lead to serious damage.





WARNING! Mufflers fitted with catalytic converters get very hot during use and remain so for some time after stopping. This also applies at idle speed. Contact can result in burns to the skin. Remember the risk of fire!



WARNING! The inside of the muffler contain chemicals that may be carcinogenic. Avoid contact with these elements in the event of a damaged muffler.



WARNING! Bear in mind that:

Engine exhaust fumes contain carbon monoxide, which can cause carbon monoxide poisoning. For this reason you should not start or run the machine indoors, or anywhere that is poorly ventilated.

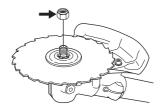
The exhaust fumes from the engine are hot and may contain sparks which can start a fire. Never start the machine indoors or near combustible material!

Locking nut



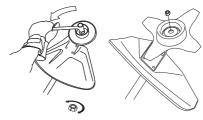


A locking nut is used to secure some types of cutting attachment.



When fitting, tighten the nut in the opposite direction to the direction of rotation of the cutting attachment. To remove it, undo the nut in the same direction as the cutting attachment rotates. (CAUTION! The nut has a left-hand thread.)

When loosening and tightening the saw blade nut, there is a risk of injury from the teeth of the saw blade. You should therefore always ensure that your hand is shielded by the blade guard when doing this. Always use a socket spanner with a shaft that is long enough to allow this. The arrow in the diagram shows the area where you should operate the socket spanner when loosening or tightening the nut.



The nylon lining inside the locking nut must not be so worn that you can turn it by hand. The lining should offer a resistance of at least 1.5 Nm. The nut should be replaced after it has been put on approx. 10 times.

Locking screw





The lock screw must be tightened securely for ball-bearingmounted support cups.



Cutting equipment

This section describes how to choose and maintain your cutting equipment in order to:

- · Reduce the risk of blade thrust.
- · Obtain maximum cutting performance.
- · Extend the life of cutting equipment.

IMPORTANT!

Only use cutting attachments with the guards we recommend! See the chapter on Technical data.

Refer to the instructions for the cutting attachment to check the correct way to load the cord and the correct cord diameter.

Keep the teeth of the blade correctly sharpened! Follow our recommendations. Also refer to the instructions on the blade packaging.

Maintain the correct blade setting! Follow our instructions and use the recommended file gauge.



WARNING! Always stop the engine before doing any work on the cutting attachment. This continues to rotate even after the throttle has been released. Ensure that the cutting attachment has stopped completely and disconnect the HT lead from the spark plug before you start to work on it.



WARNING! Using an incorrect cutting attachment or an incorrectly sharpened blade increases the risk of kickback.

Cutting equipment

Saw blades are intended for cutting fibrous types of wood.





Grass blades and grass cutters are intended for cutting coarse grass.







A trimmer head is intended for trimming grass.





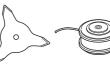
General rules



Only use cutting attachments with the guards we recommend! See the chapter on Technical data.





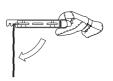


Keep the teeth of the blade correctly sharpened! Follow our instructions and use the recommended file gauge. An incorrectly sharpened or damaged blade increases the risk of accidents.



Keep the correct setting on the saw blade! Follow our instructions and use the recommended setting tool. An incorrectly set saw blade increases the risk of jamming and kickback, and damage to the saw blade.

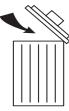




Check the cutting attachment for damage or cracks. A damaged cutting attachment should always be replaced.







Sharpening grass cutters and grass blades





 See the cutting attachment packaging for correct sharpening instructions. Sharpen blades and cutters using a single-cut flat file.

 Sharpen all edges equally to maintain the balance of the blade.





WARNING! Always discard a blade that is bent, twisted, cracked, broken or damaged in any other way. Never attempt to straighten a twisted blade so that it can be reused. Only use original blades of the specified type.

Sharpening the saw blade





 See the cutting attachment packaging for correct sharpening instructions.

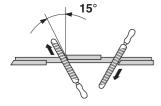
A correctly sharpened blade is essential for working efficiently and to avoid unnecessary wear to the blade and clearing saw.



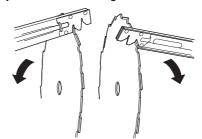
 Make sure that the blade is well supported when you file it. Use a 5.5 mm round file with a file holder.



• The filing angle is 15°. File alternate teeth to the right and those in between to the left. If the blade has been heavily pitted by stones it may be necessary to dress the top edges of the teeth with a flat file, in exceptional cases. If so, this should be done before filing with a round file. The top edges must be filed down by the same amount for all the teeth.



Adjust the blade setting. This should be 1 mm.



Trimmer head

IMPORTANT!

Always ensure the trimmer cord is wound tightly and evenly around the drum, otherwise the machine will generate harmful vibration.

Only use the recommended trimmer heads and trimmer cords. These have been tested by the manufacturer to suit a particular engine size. This is especially important when a fully automatic trimmer head is used. Only use the recommended cutting attachment. See the chapter on Technical data.





- Smaller machines generally require small trimmer heads and vice versa. This is because when clearing using a cord the engine must throw out the cord radially from the trimmer head and overcome the resistance of the grass being cleared.
- The length of the cord is also important. A longer cord requires greater engine power than a shorter cord of the same diameter.
- Make sure that the cutter on the trimmer guard is intact.
 This is used to cut the cord to the correct length.
- To increase the life of the cord it can be soaked in water for a couple of days. This will make the line tougher so that it lasts longer.

Assembling the handlebar and throttle

- · Unscrew the knob from the handlebar mounting.
- Position the handlebar as shown. Fit the mounting components and tighten the knob lightly.



• Fit the right handle to the handlebar using the screw, washer, sleeve and nut as shown. Tighten.



 Put on the harness and hang the machine from the support hook. Now make a final adjustment so that the machine is in a comfortable working position when it hangs from the harness.

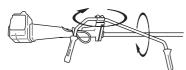
Tighten the knob.



Transport position, handlebar



- The handlebar can easily be turned to fit along the shaft for easier transportation and storage.
- Loosen the knob. Turn the handlebar clockwise so that the throttle handle rests against the engine.
- Now twist the handlebar around the shaft. Tighten the knob.



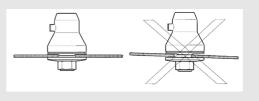
· Fit the transport guard to the cutting attachment.

Assembling the cutting equipment



WARNING!

When fitting the cutting attachment it is extremely important that the raised section on the drive disc/support flange engages correctly in the centre hole of the cutting attachment. If the cutting attachment is fitted incorrectly it can result in serious and/or fatal personal injury.





WARNING! Never use a cutting attachment without an approved guard. See the chapter on Technical data. If an incorrect or faulty guard is fitted this can cause serious personal injury.

IMPORTANT! If a saw blade or grass blade are to be used the machine must be equipped with the correct handlebar, blade guard and harness.

Fitting a blade guard, grass blade and grass cutter

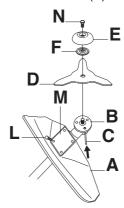




 The blade guard (A) is fitted using 4 screws (L) and the support plate (M) as shown.

CAUTION! Always use the recommended guard for the cutting attachment you are using. See chapter on Technical data.

- Fit the drive disc (B) on the output shaft.
- Turn the blade shaft until one of the holes in the drive disc aligns with the corresponding hole in the gear housing.
- Insert the locking pin (C) in the hole to lock the shaft.
- Place the blade (D) on the output shaft.



- Fit the support flange (F) on the output shaft. Make sure that the blade is centered by fitting it to the guide on the support flange.
- Screw the support cup (E) onto the output shaft threads (CAUTION! Left-hand thread). Tighten to a torque of 35-50 Nm (3.5-5.0 kpm). Use the socket spanner in the tool kit. Note that the locking pin (C) must remain inside the gear housing to lock the drive disk. Hold the shaft of the socket spanner as close to the blade guard/combination guard as possible.





WARNING! Tighten the lock screw (N) in the center hole of the support cup. Tighten to a torque of 35-50 Nm (3.5-5.0 kpm), CAUTION! Left-hand thread. If the lock screw is not fitted in the support cup, there is a risk that the support cup will come unscrewed. This means that the blade will also come loose, which could result in serious or fatal injury to the operator or others.

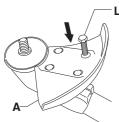
Fitting the blade guard and saw blade





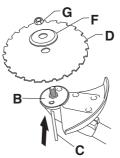
The blade guard (A) is fitted using 4 screws (L) as shown.
 CAUTION!

Always use the recommended guard for the cutting attachment you are using. See chapter on Technical data.



- · Fit the drive disc (B) on the output shaft.
- Turn the blade shaft until one of the holes in the drive disc aligns with the corresponding hole in the gear housing.
- · Insert the locking pin (C) in the hole to lock the shaft.
- Place the blade (D) and support flange (F) on the output shaft.
- Fit the nut (G). The nut must be tightened to a torque of 35-50 Nm (3.5-5 kpm). Use the socket spanner in the tool kit. Hold the shaft of the spanner as close to the blade guard as possible.

To tighten the nut, turn the spanner in the opposite direction to the direction of rotation (Caution! left-hand thread).



When loosening and tightening the saw blade nut, there is a risk of injury from the teeth of the saw blade. You should therefore always ensure that your hand is shielded by the blade guard when doing this. Always use a socket spanner with a shaft that is long enough to allow this. The arrow in the diagram shows the area where you should operate the socket spanner when loosening or tightening the nut.



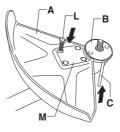
Fitting the trimmer guard and trimmer head Trimmy SII





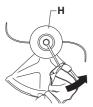
CAUTION! If the machine is to be used with a trimmer head, the fast idle speed must be reduced by 400-500 rpm. See instructions under the heading Carburettor.

- Fit the correct trimmer guard (A) for use with the trimmer head. Secure the trimmer guard using the 4 screws (L) and the support plate (M) as shown.
- · Fit the drive disc (B) on the output shaft.
- Turn the blade shaft until one of the holes in the drive disc aligns with the corresponding hole in the gear housing.
- Insert the locking pin (C) in the hole to lock the shaft.



 Screw on the trimmer head (H) in the opposite direction to the direction of rotation.

Tighten the trimmer head to a torque of 35-50 Nm (3.5-5 kpm).



· To dismantle, follow the instructions in the reverse order.

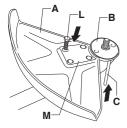
Fitting other guards and cutting attachments





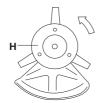
Fit the trimmer guard/combination guard (A) intended for use with the trimmer head/plastic blades. Secure the trimmer guard using the 4 screws (L) and the support plate (M) as shown.

- · Fit the drive disc (B) on the output shaft.
- Turn the blade shaft until one of the holes in the drive disc aligns with the corresponding hole in the gear housing.
- · Insert the locking pin (C) in the hole to lock the shaft.



 Screw on the trimmer head/plastic blades (H) in the opposite direction to the direction of rotation.





· To dismantle, follow the instructions in the reverse order.

Adjusting the harness and clearing saw



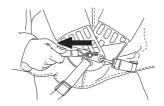
WARNING! When using a clearing saw it must always be hooked securely to the harness. Otherwise you will be unable to control the clearing saw safely and this can result in injury to yourself or others. Never use a harness with a defective quick release.

Standard harness



Safety release

At the front is an easily accessible, quick release. Use this if the engine catches fire or in any other emergency situation that requires you to free yourself from the machine and harness.



Spreading the load on your shoulders

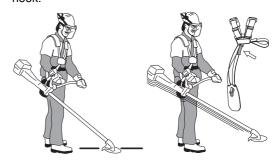
A well-adjusted harness and machine makes work much easier. Adjust the harness for the best working position. Tension the side straps so that the weight is evenly distributed across both shoulders.



Correct height

1 Forestry clearing

The machine should be supported in a harness when forestry clearing so that the cutting equipment is angled slightly forwards in relation to the ground. Adjust the height using the strap on the harness for the support hook.



2 Grass clearing

The machine should be supported in a harness when grass clearing so that the cutting equipment is parallel to the ground.



Vector harness



Safety release

Push down the red release lever to release the machine from the harness.

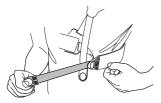


Adjusting the harness

1 Tighten the hip strap so that it sits securely.



2 Tighten the chest strap under your left arm so that it fits closely around your body.



3 Adjust the shoulder strap to distribute the load evenly across your shoulders. Press downwards on the suspension hook to load the harness.



4 Adjust the height of the suspension hook as described in the instructions for the standard harness. (Forestry clearing)



- 5 If you need to lower the suspension hook, for trimming for example, move the suspension strap (A) to the lower mounting point on the backplate.
- 6 The elastic strap (B) can be tightened to transfer more load from the shoulder straps to the hip strap.



Correct balance

1 Forestry clearing

The machine is balanced by moving the support ring on the machine forwards or backwards. On some models the support ring is fixed, however, this will then have a number of holes for the support hook. The machine is correctly balanced when it freely hangs horizontally from the support hook. In this way the risk of hitting stones is reduced if you need to release the handlebar.



2 Grass clearing

Let the blade balance at a comfortable cutting height, i.e. close to the ground.



FUEL HANDLING

Fuel safety

Never start the machine:

- 1 If you have spilt fuel on it. Wipe off the spillage and allow remaining fuel to evaporate.
- 2 If you have spilt fuel on yourself or your clothes, change your clothes. Wash any part of your body that has come in contact with fuel. Use soap and water.
- 3 If the machine is leaking fuel. Check regularly for leaks from the fuel cap and fuel lines.

Transport and storage

- Store and transport the machine and fuel so that there is no risk of any leakage or fumes coming into contact with sparks or naked flames, for example, from electrical machinery, electric motors, electrical relays/switches or boilers.
- When storing and transporting fuel always use approved containers intended for this purpose.
- When storing the machine for long periods the fuel tank must be emptied. Contact your local gas station to find out where to dispose of excess fuel.
- Ensure the machine is cleaned and that a complete service is carried out before long-term storage.
- The transport guard must always be fitted to the cutting attachment when the machine is being transported or in storage.



WARNING! Take care when handling fuel. Bear in mind the risk of fire, explosion and inhaling fumes.

Fuel

CAUTION! The machine is equipped with a two-stroke engine and must always been run using a mixture of gasoline and two-stroke engine oil. It is important to accurately measure the amount of oil to be mixed to ensure that the correct mixture is obtained. When mixing small amounts of fuel, even small inaccuracies can drastically affect the ratio of the mixture.



WARNING! Fuel and fuel fumes are highly inflammable and can cause serious injury when inhaled or allowed to come in contact with the skin. For this reason observe caution when handling fuel and make sure there is adequate ventilation.

Gasoline



CAUTION! Always use a quality petrol/oil mixture with an octane rating of at least 87 octane ((RON+MON)/2). If your machine is equipped with a catalytic converter (see chapter on Technical data) always use a good quality unleaded petrol/oil mixture. Leaded petrol will destroy the catalytic converter.

Use low-emission gasoline, also known as alkylate gasoline, if it is available.



This engine is certified to operate on unleaded gasoline.

- The lowest recommended octane grade is 87
 ((RON+MON)/2). If you run the engine on a lower octane
 grade than 87 so-called knocking can occur. This gives
 rise to a high engine temperature and increased bearing
 load, which can result in serious engine damage.
- When working at continuous high revs a higher octane rating is recommended.

Two-stroke oil

- For best results and performance use JONSERED twostroke engine oil, which is specially formulated for our aircooled two stroke-engines.
- Never use two-stroke oil intended for water-cooled engines, sometimes referred to as outboard oil (rated TCW).
- · Never use oil intended for four-stroke engines.
- Mixing ratio

1:50 (2%) with JONSERED two-stroke oil or equivalent.

Gasoline, litre	Two-stroke oil, litre	
Gasonne, nue	2% (1:50)	
5	0,10	
10	0,43/0,20	
15	0,30	
20	0,40	
US gallon	US fl. oz.	
1	2 1/2	
2 1/2	6 1/2	
5	12 7/8	

FUEL HANDLING

Mixing

- Always mix the gasoline and oil in a clean container intended for fuel.
- Always start by filling half the amount of the gasoline to be used. Then add the entire amount of oil. Mix (shake) the fuel mixture. Add the remaining amount of gasoline.
- Mix (shake) the fuel mixture thoroughly before filling the machine's fuel tank.



- Do not mix more than one month's supply of fuel at a time.
- If the machine is not used for some time the fuel tank should be emptied and cleaned.



WARNING! The catalytic converter muffler gets very hot during and after use. This also applies during idling. Be aware of the fire hazard, especially when working near flammable substances and/or vapours.

Fueling





WARNING! Taking the following precautions, will lessen the risk of fire:

Do not smoke or place hot objects near fuel.

Always shut off the engine before refuelling.

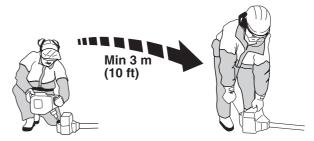
Always stop the engine and let it cool for a few minutes before refuelling.

When refuelling, open the fuel cap slowly so that any excess pressure is released gently.

Tighten the fuel cap carefully after refuelling.

Always move the machine away from the refuelling area before starting.

- Clean the area around the fuel cap. Contamination in the tank can cause operating problems.
- Ensure that the fuel is well mixed by shaking the container before filling the tank.



STARTING AND STOPPING

Check before starting





 Check the blade to ensure that no cracks have formed at the bottom of the teeth or by the centre hole. The most common reason why cracks are formed is that sharp corners have been formed at the bottom of the teeth while sharpening or that the blade has been used with dull teeth. Discard a blade if cracks are found.







 Check that the support flange is not cracked due to fatigue or due to being tightened too much. Discard the support flange if it is cracked.



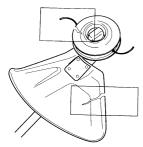
 Ensure the locking nut has not lost its captive force. The nut lock should have a locking force of at least 1.5 Nm.
 The tightening torque of the locking nut should be 35-50 Nm.



Check that the blade guard is not damaged or cracked.
 Replace the blade guard if it is exposed to impact or is cracked.



Check that the trimmer head and trimmer guard are not damaged or cracked. Replace the trimmer head or trimmer guard if they have been exposed to impact or are cracked.



 Never use the machine without a guard nor with a defective guard.

Starting and stopping





WARNING! The complete clutch cover and shaft must be fitted before the machine is started, otherwise the clutch can come loose and cause personal injury.

Always move the machine away from the refuelling area before starting. Place the machine on a flat surface. Ensure the cutting attachment cannot come into contact with any object.

Make sure no unauthorised persons are in the working area, otherwise there is a risk of serious personal injury. The safety distance is 15 metres.

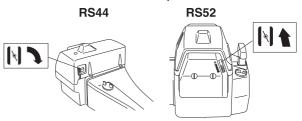
Cold engine

Ignition:

Set the stop switch to the start position.

Choke:

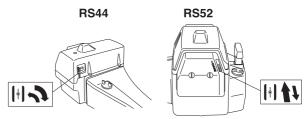
Set the choke control in the choke position.



Warm engine

Use the same starting procedure as for a cold engine but without setting the choke control in the choke position.

Set the throttle to the start position by moving the choke control to the choke position and then returning it to its original position.



STARTING AND STOPPING

Starting



WARNING! When the engine is started with the choke in either the choke or start throttle positions the cutting attachment will start to rotate immediately.

Hold the body of the machine on the ground using your left hand (CAUTION! Not with your foot!). Grip the starter handle, slowly pull out the cord with your right hand until you feel some resistance (the starter pawls grip), now quickly and powerfully pull the cord. **Never wrap the starter cord around your hand**

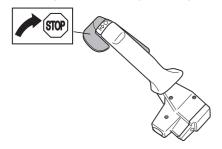
Repeat pulling the cord until the engine starts. When the engine starts return choke control to run position and apply full throttle; the throttle will automatically disengage from the start setting.

CAUTION! Do not pull the starter cord all the way out and do not let go of the starter handle when the cord is fully extended. This can damage the machine.



Stopping

Stop the engine by switching off the ignition.



General working instructions

IMPORTANT!

This section describes the basic safety precautions for working with clearing saws and trimmers.

If you encounter a situation where you are uncertain how to proceed you should ask an expert. Contact your dealer or your service workshop.

Avoid all usage which you consider to be beyond your capability.

You must understand the difference between forestry clearing, grass clearing and grass trimming before use.

Basic safety rules

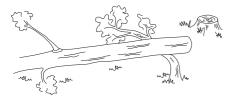




- 1 Look around you:
- To ensure that people, animals or other things cannot affect your control of the machine.
- To ensure that people, animals, etc., do not come into contact with the cutting attachment or loose objects that are thrown out by the cutting attachment.
- CAUTION! Do not use the machine unless you are able to call for help in the event of an accident.
- 2 Do not use the machine in bad weather, such as dense fog, heavy rain, strong wind, intense cold, etc. Working in bad weather is tiring and often brings added risks, such as icy ground, unpredictable felling direction, etc.
- 3 Make sure you can move and stand safely. Check the area around you for possible obstacles (roots, rocks, branches, ditches, etc.) in case you have to move suddenly. Take great care when working on sloping ground.



4 Take great care when cutting a tree that is under tension. A tree that is under tension may spring back to its normal position before or after being cut. If you position yourself incorrectly or make the cut in the wrong place the tree may hit you or the machine and cause you to lose control. Both situations can cause serious personal injury.



5 Switch off the engine before moving to another area. Fit the transport guard before carrying or transporting the equipment any distance. 6 Never put the machine down with the engine running unless you have it in clear sight.

The ABC of clearing

- · Always use the correct equipment.
- · Make sure the equipment is well adjusted.
- Follow the safety precautions.
- · Organise your work carefully.
- · Always use full throttle when starting to cut with the blade.
- · Always use sharp blades.
- Avoid stones.
- Control the felling direction (take advantage of the wind).



WARNING! Neither the operator of the machine nor anyone else may attempt to remove the cut material while the engine is running or the cutting equipment is rotating, as this can result in serious injury.

Stop the engine and cutting equipment before you remove material that has wound around the blade shaft as otherwise there is a risk of injury. The bevel gear can get hot during use and may remain so for a while afterwards. You could get burnt if you touch it.



WARNING! Watch out for thrown objects.
Always wear approved eye protection. Never lean over the cutting attachment guard.
Stones, rubbish, etc. can be thrown up into the eyes causing blindness or serious injury.

Keep unauthorised persons at a distance. Children, animals, onlookers and helpers should be kept outside the safety zone of 15 m. Stop the machine immediately if anyone approaches. Never swing the machine around without first checking behind you to make sure no-one is within the safety zone.



WARNING! Sometimes branches or grass get caught between the guard and cutting attachment. Always stop the engine before cleaning.

Working methods



WARNING! Avoid cutting with the area of the blade between the 12 o'clock and 3 o'clock positions. Because of the speed of rotation of the blade kickback can occur if you attempt to cut thick stems with this area of the blade.

- Before you start clearing, check the clearing area, the type of terrain, the slope of the ground, whether there are stones, hollows etc.
- Start at whichever end of the area is easiest, and clear an open space from which to work.

 Work systematically to and fro across the area, clearing a width of around 4-5 m on each pass. This exploits the full reach of the machine in both directions and gives the operator a convenient and varied working area to work in.



- Clear a strip around 75 m long. Move your fuel can as work progresses.
- On sloping ground you should work along the slope. It is much easier to work along a slope than it is to work up and down it
- You should plan the strip so that you avoid going over ditches or other obstacles on the ground. You should also orient the strip to take advantage of wind conditions, so that cleared stems fall in the cleared area of the stand.

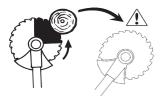


Forestry clearing using a saw blade





 The risk of kickback increases with increasing stem size.
 You should therefore avoid cutting with the area of the blade between 12 o'clock and 3 o'clock.



 To fell to the left, the bottom of the tree should be pushed to the right. Tilt the blade and bring it diagonally down to the right, exerting firm pressure. At the same time push the stem using the blade guard. Cut with the area of the blade between 3 o'clock and 5 o'clock. Apply full throttle before advancing the blade.





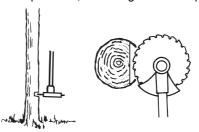
 To fell to the right, the bottom of the tree should be pushed to the left. Tilt the blade and bring it diagonally up to the right. Cut with the area of the blade between 3 o'clock and 5 o'clock so that the direction of rotation of the blade pushes the bottom of the tree to the left.

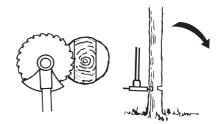


 To fell a tree forwards, the bottom of the tree should be pulled backwards. Pull the blade backwards with a quick, firm movement.



Large stems must be cut from two sides. First determine
which direction the stem will fall. Make the first cut on the
felling side. Then finish cutting the stem from the other
side. Adjust the cutting pressure to match the size of the
stem and the hardness of the wood. Small stems require
more pressure, while large stems require less pressure.





- If the stems are tightly packed, adapt your walking pace to suit.
- If the blade jams in a stem, never jerk the machine free. If you do this the blade, bevel gear, shaft or handlebar may be damaged. Release the handles, grip the shaft with both hands and gently pull the machine free.

Brush cutting with a saw blade

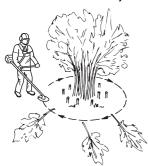






- Thin stems and brush are mown down. Work with a sawing movement, swinging sideways.
- · Try to cut several stems in a single sawing movement.

 With groups of hardwood stems, first clear around the group. Start by cutting the stems high up around the outside of the group to avoid jamming. Then cut the stems to the required height. Now try to reach in with the blade and cut from the centre of the group. If it is still difficult to gain access, cut the stems high up and let them fall. This will reduce the risk of jamming.

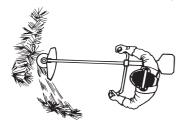


Grass clearing using a grass blade





- Grass blades and grass cutters must not be used on woody stems.
- · A grass blade is used for all types of tall or coarse grass.
- The grass is cut down with a sideways, swinging movement, where the movement from right-to-left is the clearing stroke and the movement from left-to-right is the return stroke. Let the left-hand side of the blade (between 8 and 12 o'clock) do the cutting.



- If the blade is angled to the left when clearing grass, the grass will collect in a line, which makes it easier to collect, e.g. by raking.
- Try to work rhythmically. Stand firmly with your feet apart.
 Move forward after the return stroke and stand firmly again.
- Let the support cup rest lightly against the ground. It is used to protect the blade from hitting the ground.
- Reduce the risk of material wrapping around the blade by following these instructions:
 - 1 Always work at full throttle.
 - 2 Avoid the previously cut material during the return stroke.
- Stop the engine, unclip the harness and place the machine on the ground before you start to collect the cut material.

Grass trimming with a trimmer head







Trimming

Hold the trimmer head just above the ground at an angle.
 It is the end of the cord that does the work. Let the cord work at its own pace. Never press the cord into the area to be cut.



- The cord can easily remove grass and weeds up against walls, fences, trees and borders, however it can also damage sensitive bark on trees and bushes, and damage fence posts.
- Reduce the risk of damaging plants by shortening the cord to 10-12 cm and reducing the engine speed.

Clearing

 The clearing technique removes all unwanted vegetation. Keep the trimmer head just above the ground and tilt it. Let the end of the cord strike the ground around trees, posts, statues and the like. CAUTION! This technique increases the wear on the cord.

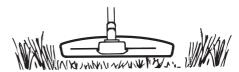


- The cord wears quicker and must be fed forward more often when working against stones, brick, concrete, metal fences, etc., than when coming into contact with trees and wooden fences.
- When trimming and clearing you should use less than full throttle so that the cord lasts longer and to reduce the wear on the trimmer head.

Cutting



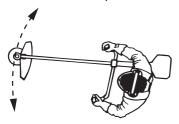
 The trimmer is ideal for cutting grass that is difficult to reach using a normal lawn mower. Keep the cord parallel to the ground when cutting. Avoid pressing the trimmer head against the ground as this can ruin the lawn and damage the tool.



 Do not allow the trimmer head to constantly come into contact with the ground during normal cutting. Constant contact of this type can cause damage and wear to the trimmer head.

Sweeping

 The fan effect of the rotating cord can be used for quick and easy clearing up. Hold the cord parallel to and above the area to be swept and move the tool to and fro.



 When cutting and sweeping you should use full throttle to obtain the best results.

Carburetor

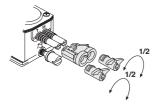
Your Jonsered product has been designed and manufactured to specifications that reduce harmful exhaust fumes. The engine will be run in after it has used 8-10 tanks of fuel. To ensure that the engine runs at peak performance and produces as little harmful exhaust fumes as possible after the running-in period, ask your dealer/service workshop (which has a rev counter for this purpose) to adjust your carburettor.



WARNING! The complete clutch cover and shaft must be fitted before the machine is started, otherwise the clutch can come loose and cause personal injury.

Carburetor adjustment

The carburettor can be designed in different ways, depending on the existing environmental and emissions legislation. Some machines are equipped with movement limiters on the carburettor's adjuster screws. These limit the adjustment range to a maximum of 1/2 turn.



Function

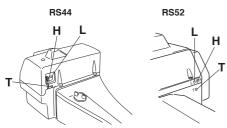


- The carburetor governs the engine's speed via the throttle control. Air and fuel are mixed in the carburetor. The air/ fuel mixture is adjustable. Correct adjustment is essential to get the best performance from the machine.
- The setting of the carburetor means that the engine is adapted to local conditions, for example, the climate, altitude, fuel and the type of 2-stroke oil.
- The carburetor has three adjustment controls:

L = Low speed jet

H = High speed jet

T = Idle adjustment screw



The L and H-jets are used to adjust the supply of fuel to match the rate that air is admitted, which is controlled with the throttle. If they are screwed clockwise the air/fuel ratio becomes leaner (less fuel) and if they are turned anticlockwise the ratio becomes richer (more fuel). A lean mixture gives a higher engine speed and a rich mixture gives a lower engine speed.

 The T-screw regulates the throttle setting at idle speed. If the T-screw is turned clockwise this gives a higher idle speed; turning it anti-clockwise gives a lower idle speed.

Basic setting

 The basic carburetor settings are adjusted during testing at the factory. The basic setting is richer than the optimal setting and should be maintained for the first few hours the machine is in use. The carburettor should then be finely adjusted. Fine adjustment should be carried out by a skilled technician.

The basic setting can vary between: $H = 1 - 1 \frac{1}{4}$ turns and $L = 1 - 1 \frac{1}{4}$ turns.

CAUTION! If the cutting attachment rotates when the engine is idling the idle adjustment screw T should be turned anticlockwise until the cutting attachment stops.

Rec. idle speed 2700 rpm



WARNING! If the idle speed cannot be adjusted so that the cutting attachment stops, contact your dealer/service workshop. Do not use the machine until it has been correctly adjusted or repaired.

CAUTION! The machine should only be run for short periods at its highest speed. For optimum adjustment of the carburettor, contact a qualified dealer/service workshop that has a revolution counter at their disposal.

Recommended max. speed: See the Technical data section.

During the running-in period (8-10 tanks of fuel) the maximum speed should be set 600-700 rpm below the recommended maximum speed (= open the high speed jet H a further 1/8 turn).

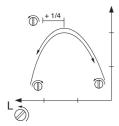
Conditions

- Before any adjustments are made, make sure that the air filter is clean and the air filter cover is fitted. If you adjust the carburettor when the air filter is dirty it will result in a leaner mixture when the filter is finally cleaned. This can lead to serious engine damage.
- Carefully turn both jets, L and H, so that they are midway between fully screwed in and fully screwed out.
- Do not attempt to adjust the L and H jets beyond either stop as this could cause damage.
- Now start the machine according to the starting instructions and let it warm up for 10 minutes.

CAUTION! If the cutting attachment rotates when the engine is idling the idle adjustment screw T should be turned anti-clockwise until the cutting attachment stops.

Low speed jet L

Try to find the highest idling speed, turning the low speed needle L clockwise respectively counter-clockwise. When the highest speed has been found, turn the low speed needle L 1/4 turn counter-clockwise.



Fine adjustment of the idle speed T

Adjust the idle speed using the idle adjustment screw T, if it is necessary to readjust. First turn the idle adjustment screw T clockwise until the cutting attachment starts to rotate. Then turn the screw anticlockwise until the cutting attachment stops. The idle speed is correctly adjusted when the engine will run smoothly in every position. The idle speed should also be well below the speed at which the cutting attachment starts to rotate.

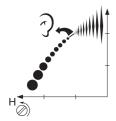


WARNING! If the idle speed cannot be adjusted so that the cutting attachment stops, contact your dealer/service workshop. Do not use the machine until it has been correctly adjusted or repaired.

High speed jet H (GR41, GR50, RS44)

The high speed jet H affects the engine power, speed, temperature and fuel consumption. If the high speed jet H is set too lean (screwed in too far) the engine speed will be too high and cause engine damage. Do not let the engine run at full speed for more than 10 seconds.

Apply full throttle and turn the high speed jet H very slowly clockwise until the engine slows down. Then turn the high speed jet H very slowly anticlockwise until the engine starts to run unevenly. Now turn the high speed jet H slowly clockwise a little way until the engine runs smoothly.



Note that the engine should not be under load when you adjust the high speed jet H. You should therefore remove the cutting attachment, nut, support flange and drive disc before adjusting the high speed jet H.

The high speed jet H is adjusted correctly when the machine burbles a little. If the machine races then the setting is too lean. If the engine produces a lot of smoke and burbles a lot then the setting is too rich.

CAUTION! For optimum adjustment of the carburettor, contact a qualified dealer/service workshop that has a revolution counter at their disposal.

High speed jet H (RS52)

The high speed jet H affects the engine power, speed, temperature and fuel consumption. If the high speed jet H is set too lean (screwed in too far) the engine speed will be too high and cause engine damage. Do not let the engine run at full speed for more than 10 seconds.

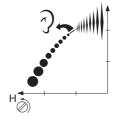
Setting procedure without a load (Blade can be used)

The machine is equipped with speed control in the ignition system. It is extremely important to be aware of this when adjusting the carburettor.

RS52: Speed control at: 13500 rpm

When attempting to adjust the speed over that specified, the speed is not changed, but only causes the engine to receive too little fuel resulting in a large risk of engine failure.

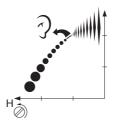
Run the machine warm for approximately 5 minutes alternating between short intervals of full throttle and idling. When the carburettor is to be adjusted, apply full throttle and turn the H-needle anti-clockwise until the engine speed reaches 10,500-11,000 r/min (burbles) or until the cap reaches its stop position. Now turn the H-needle slowly clockwise until the engine reaches the speed when the speed control comes into force. In some cases, speed control can come into force at 200-300 revs below or above that specified. It is important that you do not continue to turn the H-needle clockwise when the engine speed has stabilised. Screw the H-needle (anti-clockwise) a few tenths of a turn instead.



Setting procedure with a load (Trimmer head should be used)

Ensure the length of the trimmer cord is correct, i.e. exactly reaches the knife on the trimmer guard. Use either 3 mm or 3.3 mm diameter trimmer cord.

Run the machine warm for about 5 minutes mostly at full throttle. When the carburettor is to be adjusted, apply full throttle and turn the H-needle anti-clockwise until the engine burbles or until the cap reaches its stop position. (If the engine runs smoothly when the cap is in its stop position no further adjustment is necessary!) Turn the H-needle slowly clockwise until the engine runs absolutely smoothly. (Burbling has stopped completely). Now screw the H-needle (anti-clockwise) a few tenths of a turn.



CAUTION! For optimum adjustment of the carburettor, contact a qualified dealer/service workshop that has a revolution counter at their disposal.

Correctly adjusted carburetor

When the carburetor is correctly adjusted the machine will accelerate without hesitation and burble a little at maximum speed. It is also important that the cutting attachment does not rotate at idle. If the low speed jet L is set too lean it may cause starting difficulties and poor acceleration. If the high speed jet H is set too lean it will result in less power, less performance, poor acceleration and/or damage to the engine. If both the L and H jets are set too rich it will results in acceleration problems or too low a working speed.

Muffler

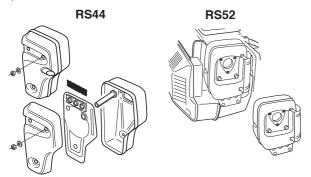




CAUTION! Some mufflers are fitted with a catalytic converter. See chapter on Technical data to see whether your machine is fitted with a catalytic converter.

The muffler is designed to reduce the noise level and to direct the exhaust gases away from the operator. The exhaust gases are hot and can contain sparks, which may cause fire if directed against dry and combustible material. Some mufflers are equipped with a special spark arrestor mesh. If your machine has this type of muffler, you should clean the mesh at least once a week. This is best done with a wire brush. On mufflers without a catalytic converter the mesh should be cleaned weekly, or replaced if necessary. On mufflers fitted with a catalytic converter the mesh should be checked, and if necessary cleaned, monthly. If the mesh is damaged it should be replaced.

If the mesh is frequently blocked, this can be a sign that the performance of the catalytic converter is impaired. Contact your dealer to inspect the muffler. A blocked mesh will cause the machine to overheat and result in damage to the cylinder and piston.



CAUTION! Never use a machine with a defective muffler.



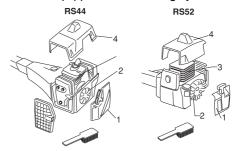
WARNING! Mufflers fitted with catalytic converters get very hot during use and remain so for some time after stopping. This also applies at idle speed. Contact can result in burns to the skin. Remember the risk of fire!

Cooling system





To keep the working temperature as low as possible the machine is equipped with a cooling system.



The cooling system consists of:

- 1 Air intake on the starter.
- 2 Fins on the flywheel.
- 3 Cooling fins on the cylinder.
- 4 Cylinder cover (directs cold air over the cylinder).

Clean the cooling system with a brush once a week, more often in demanding conditions. A dirty or blocked cooling system results in the machine overheating which causes damage to the piston and cylinder.

Air filter





The air filter must be regularly cleaned to remove dust and dirt in order to avoid:

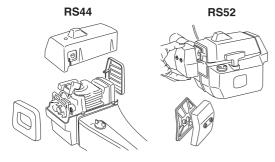
- Carburettor malfunctions
- · Starting problems
- Loss of engine power
- · Unnecessary wear to engine parts
- · Excessive fuel consumption.

Clean the filter every 25 hours, or more regularly if conditions are exceptionally dusty.

Cleaning the air filter

Remove the air filter cover and take out the filter. Wash it clean in warm, soapy water. Ensure that the filter is dry before refitting it.

An air filter that has been in use for a long time cannot be cleaned completely. The filter must therefore be replaced with a new one at regular intervals. A damaged air filter must always be replaced.

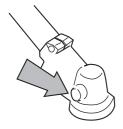


Bevel gear



The bevel gear is filled with the right amount of grease at the factory. However, before using the machine you should check that the bevel gear is filled 3/4 full with grease. Use JONSERED special grease.

The grease in the bevel gear does not normally need to be changed except if repairs are carried out.



Spark plug

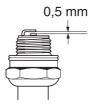


The spark plug condition is influenced by:

- · Incorrect carburetor adjustment.
- An incorrect fuel mixture (too much or incorrect type of oil).
- · A dirty air filter.

These factors cause deposits on the spark plug electrodes, which may result in operating problems and starting difficulties.

If the machine is low on power, difficult to start or runs poorly at idle speed: always check the spark plug first before taking any further action. If the spark plug is dirty, clean it and check that the electrode gap is 0.5 mm (0,020"). The spark plug should be replaced after about a month in operation or earlier if necessary.



CAUTION! Always use the recommended spark plug type! Use of the wrong spark plug can damage the piston/cylinder. Check that the spark plug is fitted with a suppressor.

IMPORTANT! Use only JONSERED replacement parts. Use of other brands of replacement parts can cause damage to your unit or injury to the operator or others. Your warranty does not cover damage or liability caused by the use of accessories and/or attachments not specifically recommended by JONSERED.

Maintenance schedule

The following is a list of the maintenance that must be performed on the machine. Most of the items are described in the Maintenance section. The user must only carry out the maintenance and service work described in this manual. More extensive work must be carried out by an authorised service workshop.

Maintenance	Daily maintenance	Weekly maintenance	Monthly maintenance
Clean the outside of the machine.	X		
Check that the harness is not damaged.	X		
Make sure the throttle trigger lock and the throttle function correctly from a safety point of view.	Х		
	Х		
Check that the stop switch works correctly.	Х		
Check that the cutting attachment does not rotate at idle.	Х		
Clean the air filter. Replace if necessary.	X		
Check that the guard is undamaged and not cracked. Replace the guard if it has been exposed to impact or is cracked.	Х		
Check that the blade is correctly centred, is sharp, and is not cracked. An off-centre blade will cause vibration that could result in damage to the machine.	Х		
Check that the trimmer head is undamaged and not cracked. Replace the trimmer head if necessary.	х		
Check that the locking nut of the cutting equipment is tighten correctly.	Х		
Check that the locking screw is tightened when using a support cup with bearings.	Х		
Check that the transport guard for the blade is intact and that it can be secured correctly.	Х		
Check that nuts and screws are tight.	X		
Check that there are no fuel leaks from the engine, tank or fuel lines.	Х		
Check the starter and starter cord.		Х	
Check that the vibration damping elements are not damaged.		Х	
Clean the outside of the spark plug. Remove it and check the electrode gap. Adjust the gap to 0.5 mm (.20"), or replace the spark plug. Check that the spark plug is fitted with a suppressor.		Х	
Clean the machines cooling system.		Х	
Clean or replace the spark arrestor mesh on the muffler (only applies to mufflers without a catalytic converter).		х	
Clean the outside of the carburettor and the space around it.		Х	
Check that the bevel gear is filled three-quarters full with lubricant. Fill if necessary using special grease.		х	
Check the fuel filter from contamination and the fuel hose from cracks or other defects. Replace if necessary.			х
Check all cables and connections.			X
Check the clutch, clutch springs and the clutch drum for wear. Replace if necessary by an autorized service workshop.			Х
Replace the spark plug. Check that the spark plug is fitted with a suppressor.			х
Check and clean the spark arrestor mesh on the muffler (only applies to mufflers fitted with a catalytic converter).			х
RS52: Lubricate the drive shaft with the special grease.	Do this every thr	ee months.	

TECHNICAL DATA

Technical data

Technical data	RS44	RS52
Engine		
Cylinder displacement, cu.in/cm ³	2,70/44,3	3,10/50,8
Cylinder bore, inch/mm	1,65/42	1,77/45
Stroke, inch/mm	1,26/32	1,26/32
Idle speed, rpm	2700	2700
Recommended max. speed, rpm	13500	13500
Speed of output shaft, rpm	10500	10500
Max. engine output, acc. to ISO 8893	2,0/9000	2,4/9600
Catalytic converter muffler	No	No
Ignition system		
Manufacturer/type of ignition system	EM/ET	EM/ET
Spark plug	NGK BPMR 7A/Champion RCJ 7Y	NGK BPMR 7A/Champion RCJ 7Y
Electrode gap, inch/mm	0,02/0,5	0,02/0,5
Fuel and lubrication system		
Manufacturer/type of carburetor	Zama C1Q	Walbro HDA
Fuel tank capacity, US pint/litre	1,70/0,8	1,60/0,75
Weight		
Weight without fuel, cutting attachment and guard, Lbs/k	g 18,5/8,4	20,1/9,1
Sound levels		
(see note 1)		
Equivalent sound pressure level at the user's ear, measured according to ANSI B175.3-1997, dB(A), min max:	/ 100/103	98/104
Vibration levels		
Vibration levels at handles, measured according to ANS B175.3-1997, $\mbox{m/s}^2$	I	
At idle, left/right handles, min.:	2,5/2,7	3,4/4,0
At idle, left/right handles, max.:	3,5/3,5	3,4/4,0
At max. speed, left/right handles, min.:	3,3/3,3	1,4/3,0
At max. speed, left/right handles, max.:	4,8/5,4	5,8/7,4

Note 1: Equivalent noise pressure level is calculated as the time-weighted energy total for noise pressure levels under various working conditions with the following time distribution: 1/2 idle and 1/2 max. speed.

NOTE! Noise pressure at the user's ear and vibration on the handles are measured with all the machine's approved cutting equipment fitted. The table indicates the highest and lowest values.

RS44/RS52		
Approved accessories	Туре	Cutting attachment guard, Art. no.
Centre hole in blades/cutters, Ø 20 mm	Output shaft thread M12	
Grand blade/grand outtor	Multi 255-3 (Ø 255 3 teeth)	502 26 34-03
Grass blade/grass cutter	Multi 300-3 (Ø 300 3 teeth)	502 26 34-03
Saw blade	Opti XS 200-22 (Ø 200 22 teeth)	502 27 22-01
	Opti XS 225-22 (Ø 225 22 teeth)	502 03 94-05
Plastic blades	Polytrim Ø 300	503 91 60-03 / 502 26 34-03
Trimmer head	Trimmy S II	503 91 60-03
minimer nead	Auto 55	503 91 60-03
Cupport our	Fixed	-
Support cup	With ball bearing	-

FEDERAL EMISSION CONTROL WARRANTY STATEMENT

YOUR WARRANTY RIGHTS AND OBLIGATIONS

The EPA (The US Environmental Protection Agency), Environment Canada and Jonsered are pleased to explain the emissions control system warranty on your 2001 and later small nonroad engine. In U.S. and Canada, new small nonroad engines must be designed, built and equipped to meet the federal stringent anti-smog standards. Jonsered must warrant the emission control system on your small nonroad engine for the period of time listed below provided there has been no abuse, neglect or improper maintenance of your unit. Your emmission control system includes Parts such as the carburetor and the ignition system. Where a warrantable condition exists, Jonsered will repair your small nonroad engine at no cost to you. Expenses covered under warranty include diagnosis, parts and labor.

MANUFACTURER'S WARRANTY COVERAGE

The 2001 and later small nonroad engines are warranted for two years. If any emission related part on you engine (as listed above) is defective, the part will be repaired or replaced by Jonsered.

OWNER'S WARRANTY RESPONSIBILITIES

As the small nonroad engine owner, you are responsible for the performance of the required maintenance listed in your Operator's Manual. Jonsered recommends that you retain all receipts covering maintenance on your small nonroad engine, but Jonsered cannot deny warranty solely for the lack of receipts or for your failure to ensure the performance of all scheduled maintenance. As the small nonroad engine owner, you should, however, be aware that Jonsered may deny you warranty coverage if your small nonroad engine or a part of it has failed due to abuse, neglect, improper maintenance, unapproved modifications or the use of parts not made or approved by the original equipment manufacturer. You are responsible for presenting your small nonroad engine to a Jonsered authorized servicing dealer as soon as a problem exists. The warranty repairs should be completed in a reasonable amount of time, not to exceed 30 days. If you have any questions regarding your warranty rights and responsibilities, you should contact your nearest authorized servicing dealer or call Jonsered, at Sweden +46-36-146500.

WARRANTY COMMENCEMENT DATE

The warranty period begins on the date small nonroad engine is delivered.

LENGTH OF COVERAGE

Jonsered warrants to the initial owner and each subsequent purchaser that the engine is free from defects in materials and workmanship which cause the failure of a warranted part for a period of two years.

WHAT IS COVERED

REPAIR OR REPLACEMENT OF PARTS Repair or replacement of any warranted part will be performed at no charge to the owner at an approved Jonsered servicing dealer. If you have any questions regarding your warranty

rights and responsibilities, you should contact your nearest authorized servicing dealer or call Jonsered, at Sweden +46-36-146500.

WARRANTY PERIOD Any warranted part which is not scheduled for replacement as required maintenance, or which is scheduled only for regular inspection to the effect of "repair or replace as necessary" shall be warranted for 2 years. Any warranted part which is scheduled for replacement as required maintenance shall be warranted for the period of time up to the first scheduled replacement point for that part.

DIAGNOSIS The owner shall not be charged for diagnostic labor which leads to the determination that a warranted part is defective, if the diagnostic work is performed at an approved Jonsered servicing dealer.

CONSEQUENTIAL DAMAGES Jonsered may be liable for damages to other engine components caused by the failure of a warranted part still under warranty.

WHAT IS NOT COVERED

All failures caused by abuse, neglect or improper maintenance are not covered.

ADD -ON OR MODIFIED PARTS

The use of add-on or modified parts can be grounds for disallowing a warranty claim. Jonsered is not liable to cover failures of warranted parts caused by the use of add-on or modified parts.

HOW TO FILE A CLAIM

If you have any questions regarding your warranty rights and responsibilities, you should contact your nearest authorized servicing dealer or call Jonsered, at Sweden +46-36-146500.

WHERE TO GET WARRANTY SERVICE

Warranty services or repairs shall be provided at all Jonsered authorized servicing dealers.

MAINTENANCE, REPLACEMENT AND REPAIR OF EMISSION-RELATED PARTS

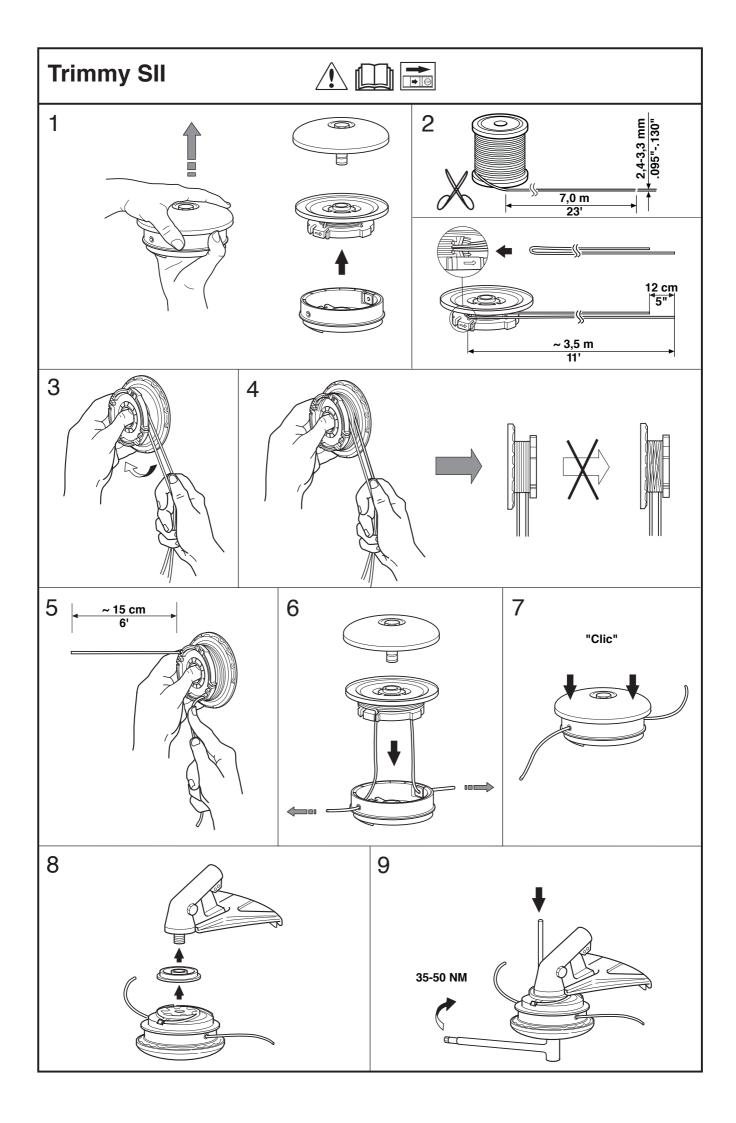
Any Jonsered approved replacement part used in the performance of any warranty maintenance or repairs on emission-related parts, will be provided without charge to the owner if the part is under warranty.

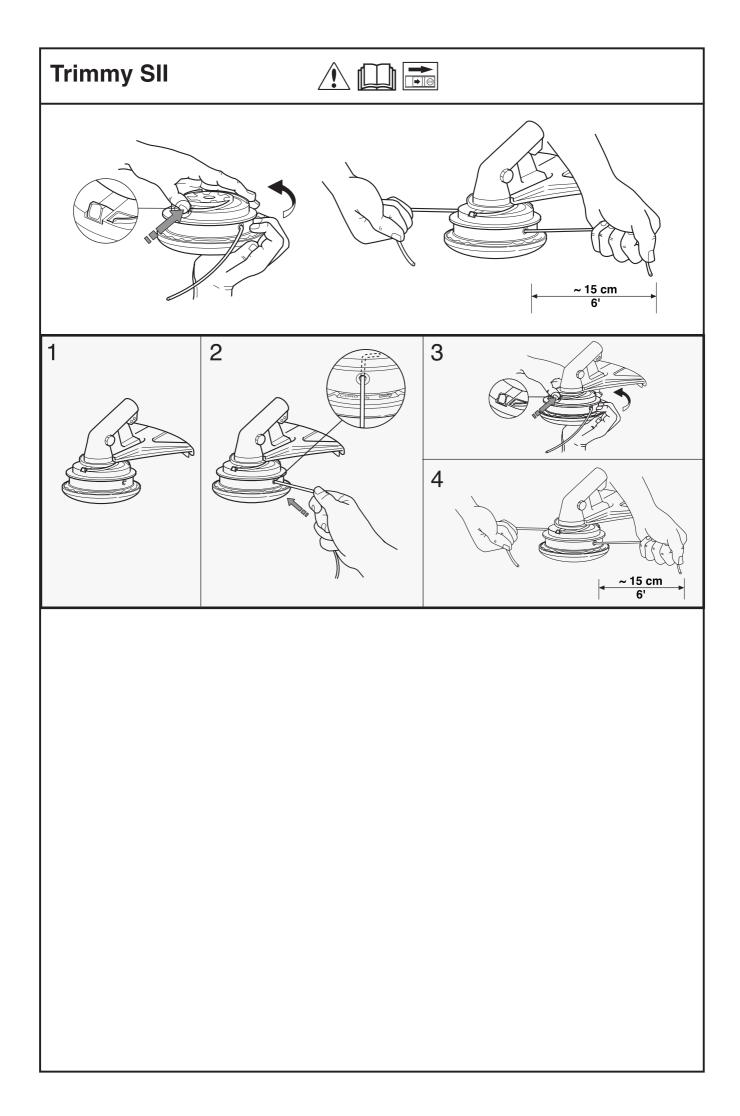
EMISSION CONTROL WARRANTY PARTS LIST

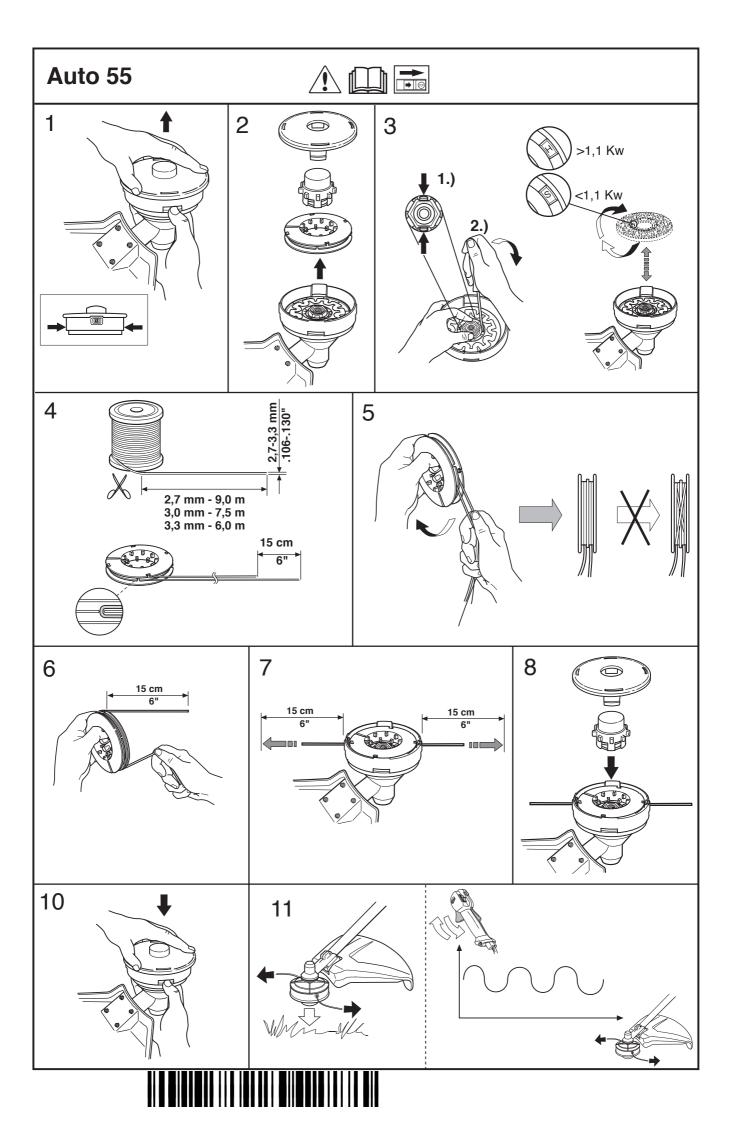
- 1 Carburetor and internal parts
- 2 Intake pipe, airfilter holder and carburetor bolts.
- 3 Airfilter and fuelfilter covered up to maintenance schedule.
- 4 Ignition System
 - 1 Spark Plug, covered up to maintenance schedule
 - 2 Ignition Module

MAINTENANCE STATEMENT

The owner is responsible for the performance of all required maintenance, as defined in the operator's manual.







.Jonsered

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